# GCE AS/A Level

**2290U20-1 –** NEW AS

## PSYCHOLOGY – Unit 2
### Using Psychological Concepts

P.M. MONDAY, 23 May 2016

1 hour 30 minutes

## ADDITIONAL MATERIALS

In addition to this examination paper, you will need a 12 page answer book.
You may require a calculator and a ruler.

## INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.
Answer **all** questions in Section A **and** Section B.
Write your answers in the separate answer book provided.

## INFORMATION FOR CANDIDATES

Mark allocations are shown in brackets.

You are reminded of the need for good English and orderly clear presentation in your answers.
Assessment will take into account the quality of written communication used in your answers.

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*Answer* **all** *questions in Section A* **and** *Section B.*

**SECTION A – Contemporary Debate**

1.  *'Eye-witness reports of children are less reliable than those of adults.'*

    Discuss the reliability of eye-witness testimony with reference to the above context.    [20]

**SECTION B – Principles of Research and Application of Research Methods**

2.  Outline the main features of a case study.    [3]

3.  Identify the three moral levels that Kohlberg used to assess his participants in his research *'The child as a moral philosopher'* (1968).    [3]

4.  *(a)*  With reference to Milgram's (1963) *'Behavioral study of Obedience'*, describe the main features of research conducted in a laboratory environment.    [6]

    Below are some of the findings from Milgram's (1963) *'Behavioral study of Obedience'*.

| Generator Label | Voltage | Number of participants who stopped at this voltage |
|---|---|---|
| Intense Shock | 255<br>270<br>285<br>300 | 0<br>0<br>0<br>5 |
| Extreme Intensity Shock | 315<br>330<br>345<br>360 | 4<br>2<br>1<br>1 |
| Danger: Severe Shock | 375<br>390<br>405<br>420 | 4<br>2<br>1<br>1 |
| XXX | 435<br>450 | 0<br>26 |

    *(b)*  Using the data in the above table, calculate the range of volts issued by participants. Show your workings.    [2]

5.  What is meant by the term 'co-variables'?    [2]

**6.** Research was carried out into whether students who smile more at their teachers are predicted higher grades than those who smile less. The smiling behaviour of students was rated by a teaching assistant who was present during three lessons. The ratings were then compared to the students' predicted grades.

*(a)* Write an appropriate null hypothesis for the above research. [2]

*(b)* The teaching assistant used time sampling to rate the smiling behaviour. Describe how the teaching assistant could have used this technique. [3]

*(c)* Explain **one** advantage and **one** disadvantage of the teaching assistant conducting research in the field. [4]

The teaching assistant recorded the average smile behaviours alongside the teacher's predicted grades. Results are shown in the table below:

| Participant No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Smile behaviour rating | 3 | 4 | 2 | 0 | 2 | 1 | 4 | 5 | 2 | 3 |
| Predicted Grade | C | B | D | D | C | E | B | A | A | C |

*(Smile behaviour rating: 0 = rarely smiled to 5 = smiled all the time)*

*(d)* Identify and explain how **one** confounding variable could have affected a student's smile behaviour rating. [2]

*(e)* Identify the level of measurement for the 'smile behaviour rating'. [1]

*(f)* (i) Identify a measure of central tendency that could be used to summarise the grades of the students and explain why this measure is appropriate. [3]

(ii) Calculate the measure of central tendency you identified in *(f)*(i). Show your workings. [2]

*(g)* Consider **two** ethical issues that might have arisen in the above research, and **one** way of dealing with **each** of the ethical issues you identified. [8]

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7.  A male confederate was in a shopping centre for three hours on two different Monday mornings. On the first Monday he wore a suit and on the second he wore gym clothing. Each Monday he asked passers-by if they would be willing to sign up to the same children's charity. The research used an opportunity sample.

    Results are shown in the table below:

    | Type of clothing worn by the confederate | Number of people who signed up to the children's charity |
    |---|---|
    | Suit | 14 |
    | Gym clothing | 7 |

    *(a)*   Using data from the table above, draw a bar chart to show the results of this research.
    [4]

    *(b)*   Identify the independent variable in the above research.                                      [1]

    *(c)*   Identify and explain the experimental design that has been used in the above research.
    [2]

    *(d)*   Describe **one** issue of validity in this research, and explain **one** way to deal with this issue.                                                                                                         [4]

    *(e)*   Explain **one** advantage and **one** disadvantage of opportunity sampling.                   [4]

    *(f)*   Explain how the research above could be refined using a different sampling technique.
    [4]


**END OF PAPER**